Institute For **New Economic Thinking**

Creating Money: for what purpose?

Towards a Sustainable Financial System

London School of Economics 21 March 2014

Adair Turner Senior Fellow, INET Credit, Money and Leverage: What Wicksell, Hayek and Fisher Knew and Modern Macro-economics Forgot. Stockholm School of Economics Conference "Towards a Sustainable Financial System", 12 September 2013,

http://ineteconomics.org/blog/institute/adair-turner-credit-money-and-leverage

Escaping the Debt Addiction: Monetary and Macro-prudential Policy in the Post-crisis World. Center for Financial Studies, Frankfurt, 10 February 2014

(http://ineteconomics.org/blog/institute/adair-turner-escaping-addiction-private-debt-essential-long-term-economic-stability)

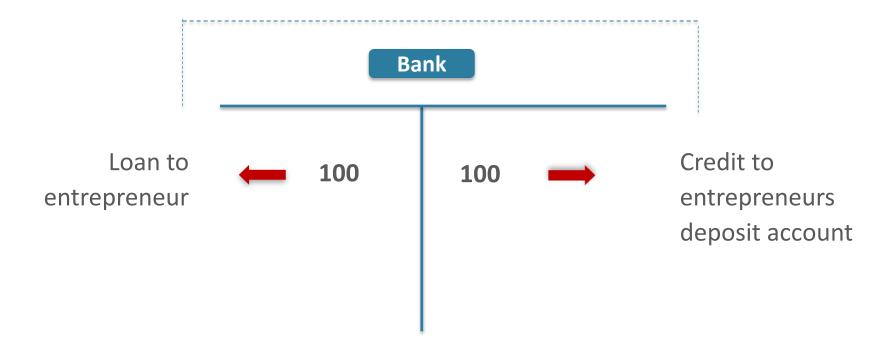
Theory: Money creation and debt

Empirics: Rising leverage and the policy conundrum

Categories of credit

Implications

Banks create credit, money and purchasing power



Two (closely related) issues

- Bank credit, money and purchasing power creation
- Debt contracts whether bank or non-bank

Credit creation as enabler of adequate demand growth

Pure metallic money

- Money supply constrained by precious metal resources
- Real growth may require downward flexibility of wages and prices
- Pure 'hoarding' possible

Alternatives / complement

- Pure fiat money creation: unfunded fiscal deficits
- Private bank (or other) credit extension
- Funded fiscal deficits

Alternative ways to stimulate nominal demand

Pure fiat money: unfunded fiscal deficits -->



Increase in private NFA

Private credit and money creation



- New money
 - And future private debt
- No increase in private NFA
 - But maturity transformation

Funded fiscal deficits



- No New money
- But increase in private NFA
- And future public debt liability

Advantages

Disadvantages

Fiat money creation

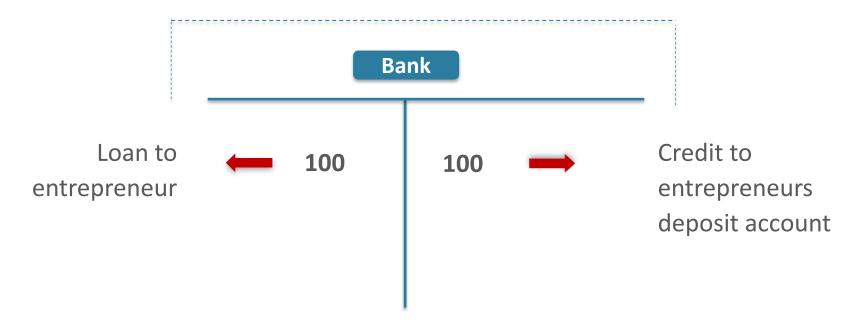
- Always possible
- Public authorities can choose optimal quantity

- Allocation is political decision
- Tendency to excessive use

Private credit creation

- Allocation determined by market disciplines
 - Is the amount created optimal?
 - Implications of resulting debt contracts?

Banks create credit, money and purchasing power



Wicksell's thesis:

Bank purchasing power creation optimal if:

Credit to businesses/entrepreneurs/other investors in real capital



Skews demand toward investment, not consumption



"Forced saving"

"An increase in capital creation at the cost of consumption, through the granting of additional credit without voluntary action on the part of the individuals who forego consumption, and without them deriving any immediate benefit".

(Friedrich Hayek, The Monetary Theory of the Trade Cycle, 1929)

Credit driven "forced saving"



- More rapid rate of growth
- Japan/Korea "financial repression" models of development

Potential Disadvantage

- Over-investment cycles
- Macro-economic imbalance
 - Growth sustained by yet more credit

Two (closely related) issues

- Bank credit, money and purchasing power creation
- Debt contracts whether bank or non-bank

Debt contracts: The finance theory perspective

- Non-state contingent contracts overcome "costly state verification" → advantages over equity contracts in business finance
- Essential to mobilisation of capital
- Empirical evidence of benefits of financial deepening, i.e. bank credit ÷ GDP

The pre-crisis orthodoxy

Central Banks / monetary theory

Low and stable inflation objective

Financial system a veil – "money, credit and banking play no meaningful role"

Implicitly Wicksellian

Finance theory

Debt contracts essential

General confidence that free markets will produce optimal balance

Main concerns about insufficiently high credit ÷ GDP ratios

The problems with debt

Upswing

- Cycles of over-supply and over-demand
- 'Local thinking'

Downswing

- Bankruptcy and default
- Rollover need and impaired lending capacity
- Debt overhang

Theory: Money creation and debt

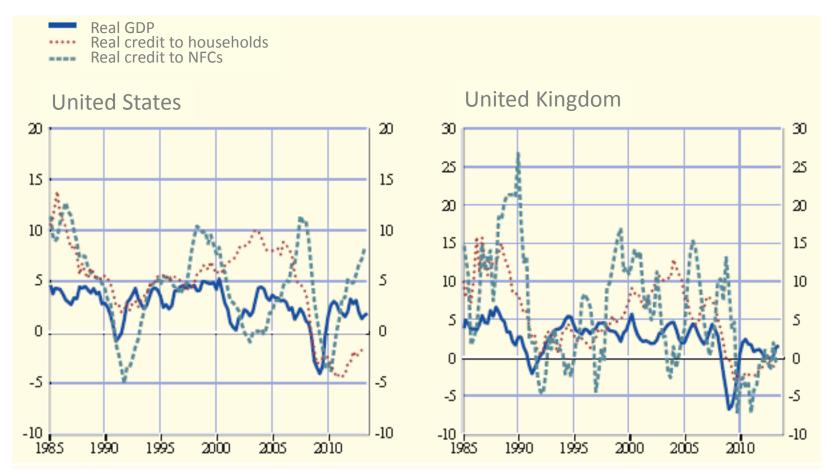
Empirics: Rising leverage and the policy conundrum

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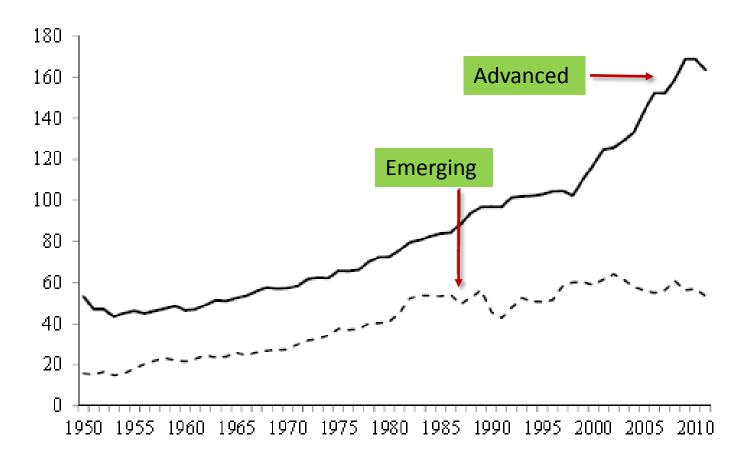
Dynamics of real GDP and credit

(Year on year % change)



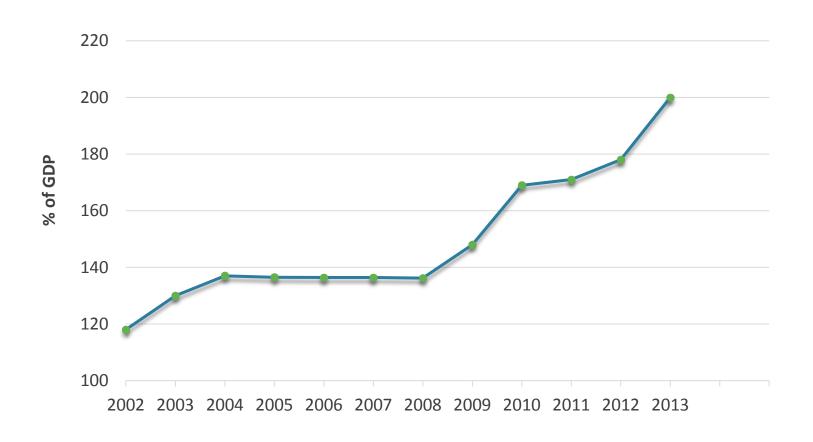
Source: Monthly Bulletin, European Central Bank, January 2014

Private domestic credit as a % of GDP: 1950 – 2011

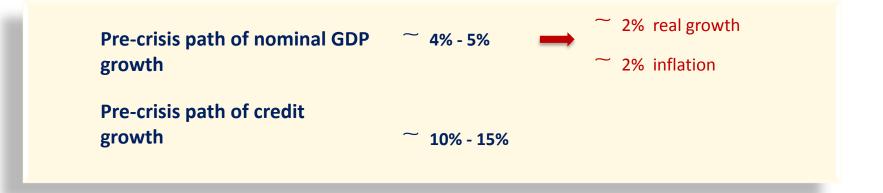


Source: Financial and Sovereign Debt Crises: Some Lessons Learned and Those Forgotten, C. Reinhart & K. Rogoff, 2013

China: total social finance to GDP



The Dilemma



If central banks had raised interest rates to slow credit growth

.... this would presumably mean slower nominal GDP growth?

We seem to need C > NGDP to ensure adequate NGDP

... but this produces financial instability and post-crisis recession

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Categories of credit

Implications

Three conceptually distinct functions of lending

Finance of increased consumption

 Enabling inter-temporal shift of consumption within life time income

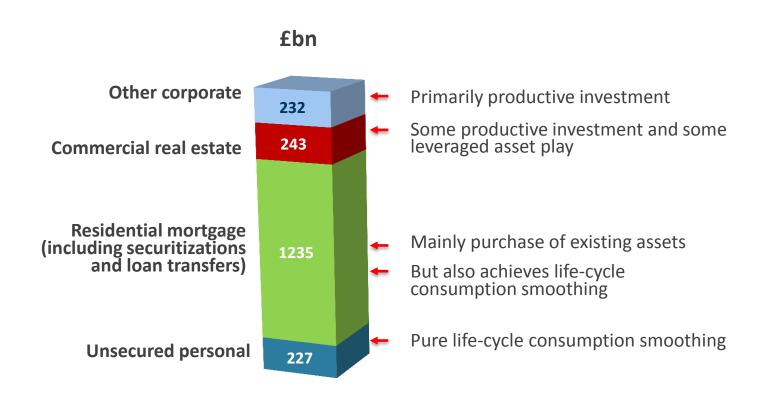
Finance of new capital investment

- Non-real estate
- Commercial real estate
- Residential real estate
- Human capital

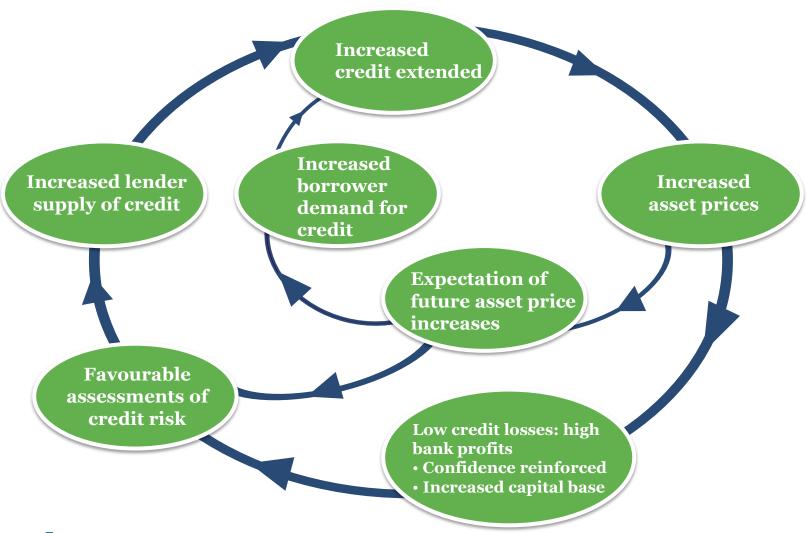
Finance of purchase of existing assets

- Real estate
- Collectibles
- Existing business assets e.g. Leveraged Buy Outs

Categories of debt: UK, 2009



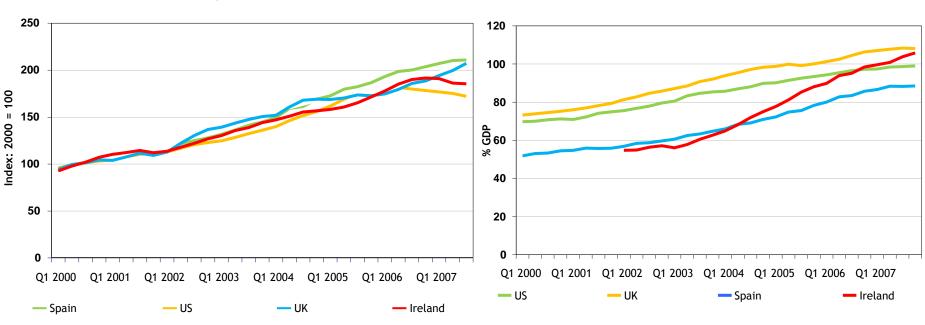
Credit and asset price cycles



Credit extension and house prices



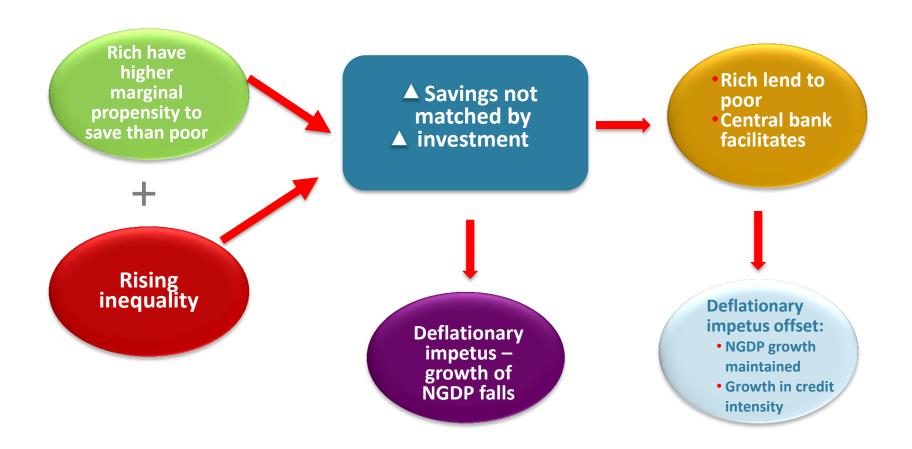
Household debt as a % of GDP 2000 - 2007



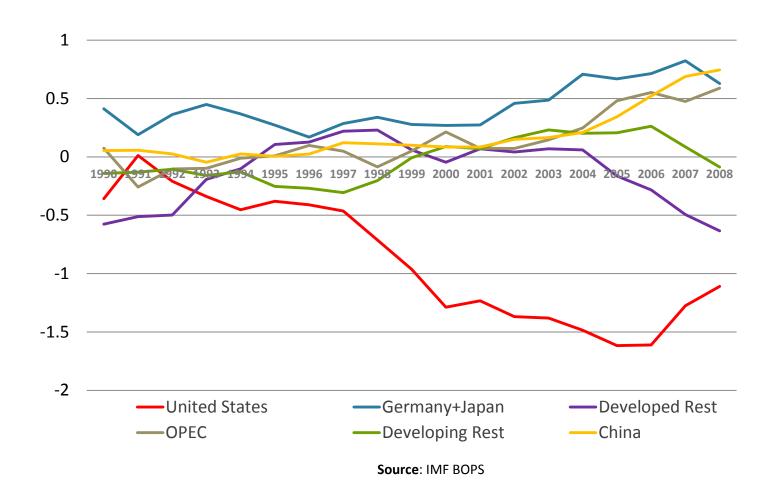
Source: Ministry of Housing (Spain), S&P (US), DCLG

Source: BEA; ONS; ECB

Inequality, demand and credit



Global current account balances as a % of world GDP



The problems with debt

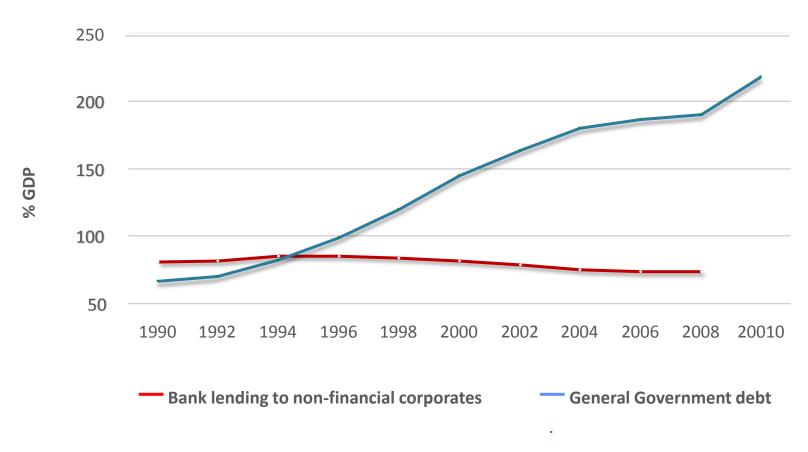
Upswing

- Cycles of over-supply and over-demand
- 'Local thinking'

Downswing

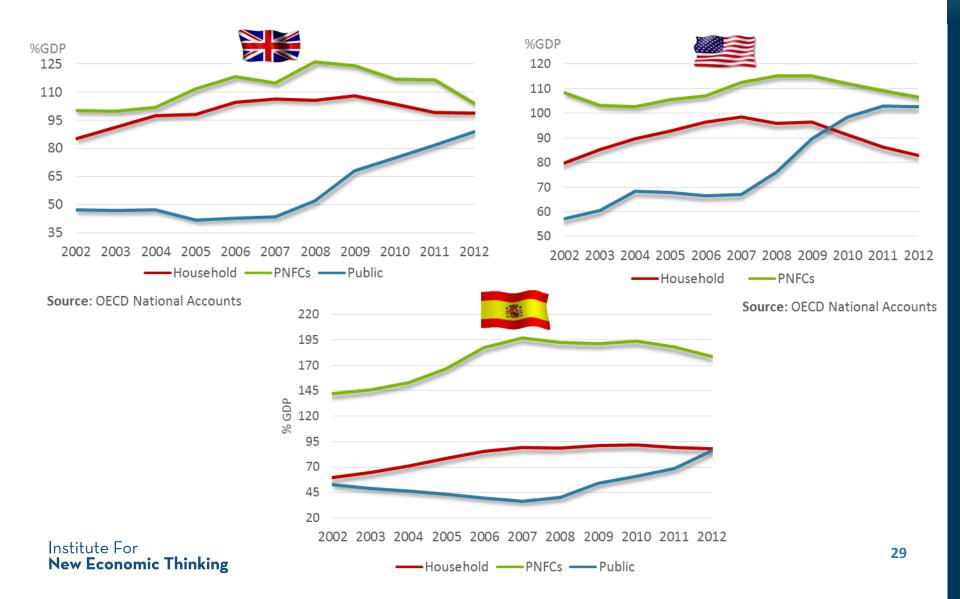
- Bankruptcy and default
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- Debt overhang

Japanese government and corporate debt: 1990 – 2010



Source: BoJ Flow of Funds Accounts, IMF WEO database (April 2011), FSA calculations

Shifting leverage: Private and public debt-to-GDP



Advantages

Disadvantages

Fiat money creation

- Always possible
- Public authorities can choose optimal quantity
- Allocation is political decision
- Tendency to excessive use

Private credit creation

 Allocation determined by market disciplines

- Market misallocation possible
 - Overinvestment cycles
 - Existing asset price cycles

Optimal amount ensured by policy interest rate?

- No, because of heterogeneity of interest rate elasticity
- ❖ Ongoing debt contracts → rollover and overhang effects

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Categories of credit

Implications

Policies required to achieve more stable growth

Reduction in inequality or at least reduced pace of increase in inequality

Reduction in global current imbalances between surplus and deficit nations

- Remove biases to credit creation in deficit countries
- Remove biases to excessive savings in surplus countries

Integrated set of monetary, macro-prudential and fiscal policies to lean against 'too much of the wrong sort of debt'.

Specific policy options and issues

Constrain level as well as rate of growth of leverage

But no precise threshold for 'Too Much' leverage

Increase capital risk weights for real estate finance above IRB estimates

Social optimal weights ≠ privately optimal Address externality and bias

LTV and LTI limits in real estate lending

Borrower constraint since lender constraints imperfect

Banks with dedicated focus on non-real estate business finance

To avoid "crowding out"